

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/896,053DATE: 07/14/98
TIME: 10:26:23

INPUT SET: S27422.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

ENTERED

SEQUENCE LISTING

- 1
2
3 (1) General Information:
4
5 (i) APPLICANT: Janssens, Stefans
6 Bloch, Kenneth D.
7 Collen, Dsir
8
9 (ii) TITLE OF INVENTION: Method of Inducing Vasodilation and
10 Treating Pulmonary Hypertension Using Adenoviral-Mediated
11 Transfer of the Nitric Oxide Synthase Gene
12
13 (iii) NUMBER OF SEQUENCES: 5
14
15 (iv) CORRESPONDENCE ADDRESS:
16 (A) ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
17 (B) STREET: 1100 New York Ave., N.W., Suite 600
18 (C) CITY: Washington
19 (D) STATE: D.C.
20 (E) COUNTRY: U.S.A.
21 (F) ZIP: 20005
22
23 (v) COMPUTER READABLE FORM:
24 (A) MEDIUM TYPE: Floppy disk
25 (B) COMPUTER: IBM PC compatible
26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
28
29 (vi) CURRENT APPLICATION DATA:
30 (A) APPLICATION NUMBER: US 08/896,053
31 (B) FILING DATE: 17-JUL-1997
32 (C) CLASSIFICATION:
33
34 (vii) PRIOR APPLICATION DATA:
35 (A) APPLICATION NUMBER: US 60/021,912
36 (B) FILING DATE: 17-JUL-1996
37
38 (viii) ATTORNEY/AGENT INFORMATION:
39 (A) NAME: Millonig, Robert C.
40 (B) REGISTRATION NUMBER: 34,395
41 (C) REFERENCE/DOCKET NUMBER: 0609.4280001/JAG/RCM
42
43 (ix) TELECOMMUNICATION INFORMATION:
44 (A) TELEPHONE: (202) 371-2600
45 (B) TELEFAX: (202) 371-2540
46

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/896,053DATE: 07/14/98
TIME: 10:26:24

INPUT SET: S27422.raw

47
48 (2) INFORMATION FOR SEQ ID NO:1:
49
50 (i) SEQUENCE CHARACTERISTICS:
51 (A) LENGTH: 27 base pairs
52 (B) TYPE: nucleic acid
53 (C) STRANDEDNESS: single
54 (D) TOPOLOGY: linear
55
56 (ii) MOLECULE TYPE: cDNA
57
58
59
60
61 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
62
63 CGGCGATGTT ACCATGGCAA CCAACGT
64
65 (2) INFORMATION FOR SEQ ID NO:2:
66
67 (i) SEQUENCE CHARACTERISTICS:
68 (A) LENGTH: 29 base pairs
69 (B) TYPE: nucleic acid
70 (C) STRANDEDNESS: single
71 (D) TOPOLOGY: linear
72
73 (ii) MOLECULE TYPE: cDNA
74
75
76
77
78 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
79
80 CGGATCCCCGG CTCTCAGGGG CTGTTGGTG
81
82 (2) INFORMATION FOR SEQ ID NO:3:
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84 (i) SEQUENCE CHARACTERISTICS:
85 (A) LENGTH: 27 base pairs
86 (B) TYPE: nucleic acid
87 (C) STRANDEDNESS: single
88 (D) TOPOLOGY: linear
89
90 (ii) MOLECULE TYPE: cDNA
91
92
93
94
95 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
96
97 CGGCGATGTT ACCATGGCAA CCAACGT
98
99 (2) INFORMATION FOR SEQ ID NO:4:

27

29

27

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/896,053DATE: 07/14/98
TIME: 10:26:25

INPUT SET: S27422.raw

100
101 (i) SEQUENCE CHARACTERISTICS:
102 (A) LENGTH: 20 base pairs
103 (B) TYPE: nucleic acid
104 (C) STRANDEDNESS: single
105 (D) TOPOLOGY: linear
106
107 (ii) MOLECULE TYPE: cDNA
108
109
110
111
112 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
113
114 CTCTGTAGGT AGTTTGTCCA 20
115
116 (2) INFORMATION FOR SEQ ID NO:5:
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118 (i) SEQUENCE CHARACTERISTICS:
119 (A) LENGTH: 4099 base pairs
120 (B) TYPE: nucleic acid
121 (C) STRANDEDNESS: single
122 (D) TOPOLOGY: linear
123
124 (ii) MOLECULE TYPE: cDNA
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126
127
128
129 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
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131 GAATTCCCAC TCTGCTGCCT GCTCCAGCAG ACGGACGCAC AGTAACATGG GCAACTTGAA 60
132
133 GAGCGTGGCC CAGGAGCCTG GGCCACCCTG CGGCCTGGGG CTGGGGCTGG GCCTTGGGCT 120
134
135 GTGCGGCAAG CAGGGCCCAG CCACCCCGGC CCCTGAGCCC AGCCGGGCCC CAGCATCCCT 180
136
137 ACTCCCACCA GCGCCAGAAC ACAGCCCCCC GAGCTCCCCG CTAACCCAGC CCCCAGAGGG 240
138
139 GCCCCAAGTTC CCTCGTGTGA AGAACTGGGA GGTGGGGAGC ATCACCTATG ACACCCTCAG 300
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141 CGCCCAGGCG CAGCAGGATG GGCCCTGCAC CCCAAGACGC TGCCTGGGCT CCCTGGTATT 360
142
143 TCCACGGAAA CTACAGGGCC GGCCCTCCCC CGGCCCCCGG GCCCCTGAGC AGCTGCTGAG 420
144
145 TCAGGCCCCG GACTTCATCA ACCAGTACTA CAGCTCCATT AAGAGGAGCG GCTCCCAGGC 480
146
147 CCACGAACAG CGGCTTCAAG AGGTGGAAGC CGAGGTGGCA GCCACAGGCA CCTACCAGCT 540
148
149 TAGGGAGAGC GAGCTGGTGT TCGGGGCTAA GCAGGCCTGG CGCAACGCTC CCCGCTGCGT 600
150
151 GGGCCGGATC CAGTGGGGGA AGCTGCAGGT GTTCGATGCC CGGGACTGCA GGTCTGCACA 660
152

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/896,053DATE: 07/14/98
TIME: 10:26:26

INPUT SET: S27422.raw

153	GGAAATGTTC ACCTACATCT GCAACCACAT CAAGTATGCC ACCAACC GGG GCAACCTTCG	720
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157	CAGCCAGCTG GTGCGCTACG CGGGCTACCG GCAGCAGGAC GGCTCTGTGC GGGGGGACCC	840
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159	AGCCAACGTG GAGATCACCG AGCTCTGCAT TCAGCACGGC TGGACCCAG GAAACGGTCG	900
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161	CTTCGACGTG CTGCCCCTGC TGCTGCAGGC CCCAGATGAG CCCCAGAAC TCTTCCTTCT	960
162		
163	GGCCCCCGAG CTGGTCCTTG AGGTGCCCCT GGAGCACCCC ACGCTGGAGT GGTTCGACG	1020
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165	CCTGGGCCTG CGCTGGTACG CCCTCCCGGC AGTGTCCAAC ATGCTGCTGG AAATTGGGG	1080
166		
167	CCTGGAGTTC CCCGCAGCCC CCTTCAGTGG CTGGTACATG AGCACTGAGA TCGGCACGAG	1140
168		
169	GAACCTGTGT GACCCTCACC GCTACAACAT CCTGGAGGAT GTGGCTGTCT GCATGGACCT	1200
170		
171	GGATACCCGG ACCACCTCGT CCCTGTGGAA AGACAAGGCA GCAGTGGAAA TCAACGTGGC	1260
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173	CGTGCTGCAC AGTTACCAGC TAGCCAAAGT CACCATCGTG GACCACCACG CCGCCACGGC	1320
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179	CAACTATTTT CTGTCCCCGG CCTTCCGCTA CCAGCCAGAC CCCTGGAAGG GGAGTGCCGC	1500
180		
181	CAAGGGCACC GGCATCACCA GGAAGAAGAC CTTTAAAGAA GTGGCCAACG CCGTGAAGAT	1560
182		
183	CTCCGCCTCG CTCATGGGCA CGGTGATGGC GAAGCGAGTG AAGGCGACAA TCCTGTATGG	1620
184		
185	CTCCGAGACC GGCCGGGCCC AGAGCTACGC ACAGCAGCTG GGGAGACTCT TCCGGAAGGC	1680
186		
187	TTTTGATCCC CGGGTCCTGT GTATGGATGA GTATGACGTG GTGTCCCTCG AACACGAGAC	1740
188		
189	GCTGGTGCTG GTGGTAACCA GCACATTTGG GAATGGGGAT CCCCCGAGA ATGGAGAGAG	1800
190		
191	CTTTGCAGCT GCCCTGATGG AGATGTCCGG CCCCTACAAC AGCTCCCCTC GGCCGGAACA	1860
192		
193	GCACAAGAGT TATAAGATCC GCTTCAACAG CATCTCCTGC TCAGACCCAC TGGTGTCTCT	1920
194		
195	TTGGCGGCGG AAGAGGAAGG AGTCCAGTAA CACAGACAGT GCAGGGGCCC TGGGCACCCT	1980
196		
197	CAGGTTCTGT GTGTCGGGC TCGGCTCCCG GGCATACCCC CACTTCTGCG CCTTTGCTCG	2040
198		
199	TGCCGTGGAC ACACGGCTGG AGGAACTGGG CGGGGAGCGG CTGCTGCAGC TGGGCCAGGG	2100
200		
201	CGACGAGCTG TGCGGCCAGG AGGAGGCCTT CCGAGGCTGG GCCCAGGCTG CCTTCCAGGC	2160
202		
203	CGCCTGTGAG ACCTTCTGTG TGGGAGAGGA TGCCAAGGCC GCCGCCGAG ACATCTTCAG	2220
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205	CCCCAAACGG AGCTGGAAGC GCCAGAGGTA CCGGCTGAGC GCCCAGGCCG AGGGCCTGCA	2280

INPUT SET: S27422.raw

206								2340
207	GTTGCTGCCA	GGTCTGATCC	ACGTGCACAG	GCGGAAGATG	TTCCAGGCTA	CAATCCGCTC		
208								2400
209	AGTGAAAAAC	CTGCAAAGCA	GCAAGTCCAC	GAGGGCCACC	ATCCTGGTGC	GCCTGGACAC		
210								2460
211	CGGAGGCCAG	GAGGGGCTGC	AGTACCAGCC	GGGGGACCAC	ATAGGTGTCT	GCCCCGCCAA		
212								2520
213	CCGGCCCCGG	CTTGTGGAGG	CGCTGCTGAG	CCGCGTGGAG	GACCCGCCGG	CGCCCCTGA		
214								2580
215	GCCCCGTGGC	GTAGAGCAGC	TGGAGAAGGG	CAGCCCTGGT	GGCCCTCCCC	CCGGCTGGGT		
216								2640
217	GCGGGACCCC	CGGCTGCCCC	CGTGCACGCT	GCGCCAGGCT	CTCACCTTCT	TCCTGGACAT		
218								2700
219	CACCTCCCCA	CCCAGCCCTC	AGCTCTTGCG	GCTGCTCAGC	ACCTTGGCAG	AAGAGCCCAG		
220								2760
221	GGAACAGCAG	GAGCTGGAGG	CCCTCAGCCA	GGATCCCCGA	CGCTACGAGG	AGTGGAAGTG		
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224								2880
225	CCCACTGCTC	CTCACCCAGC	TGCCTCTGCT	CCAGCCCCGG	TACTACTCAG	TCAGCTCGGC		
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227	ACCCAGCACC	CACCCAGGAG	AGATCCACCT	CACTGTAGCT	GTGCTGGCAT	ACAGGACTCA		
228								3000
229	GGATGGGCTG	GGCCCCCTGC	ACTATGGAGT	CTGCTCCACG	TGGCTAAGCC	AGCTCAAGCC		
230								3060
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232								3120
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234								3180
235	GCAGGAGCGG	CTGCATGACA	TTGAGAGCAA	AGGGCTGCAG	CCCACTCCCA	TGACTTTGGT		
236								3240
237	GTTCGGCTGC	CGATGCTCCC	AACTTGACCA	TCTCTACCGC	GACGAGGTGC	AGAACGCCCA		
238								3300
239	GCAGCGCGGG	GTGTTTGGCC	GAGTCCTCAC	CGCCTTCTCC	CGGGAACCTG	ACAACCCCCA		
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241	GACCTACGTG	CAGGACATCC	TGAGGACGGA	GCTGGCTGCG	GAGGTGCACC	GCGTGCTGTG		
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243	CCTCGAGCGG	GGCCACATGT	TTGTCTGCGG	CGATGTTACC	ATGGCAACCA	ACGTCCTGCA		
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252								3720
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254								3780
255	CAGGATCAGC	CCCGCTCCTC	CCCTCTTGAG	GTGGTGCCTT	CTCACATCTG	TCCAGAGGCT		
256								3840
257	GCAAGGATTC	AGCATTATTC	CTCCAGGAAG	GAGCAAAACG	CCTCTTTTCC	CTCTCTAGGC		
258								

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/08/896,053*

DATE: 07/14/98
TIME: 10:26:28

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Original Text